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April 4, 2005

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Ms. Marlene H. Dortch Secretary Federal Communications Commission 445 Twelfth Street, S.W. Washington, D.C. 20554

Federal Communications Commission
Office of Secretary

Re: Ex Parte Notice in MM Docket No. 99-325

Dear Ms. Dortch:

In accordance with the requirements of Section 1.1206 of the Commission's rules, this is to notify the Commission that, on March 28, 2005, the following representatives of the Recording Industry Association of America, Inc. ("RIAA") and the named record companies met with the representatives of the Commission's Media Bureau listed below to discuss the status of and developments affecting the above-captioned proceeding:

RIAA Representatives:

Steven M. Marks, Esq., RIAA
Mr. Bruce Block, RIAA
Justin Lilley, Esq., Consultant to RIAA
Victoria Bassetti, Esq., EMI Recorded Music
Deirdre McDonald, Esq., SonyBMG
Linda Bloss-Baum, Esq., Warner Music Group
Matthew Gerson, Esq., Universal Music Group
Theodore D. Frank, Esq., Arnold & Porter LLP
Glenn B. Manishin, Esq., Kellye, Drye & Warren LLP

FCC Representatives:

Steven Broeckaert, Esq. Susan N. Crawford, Esq. Peter Doyle, Esq. Ms. Ann Gallagher Benjamin Golant, Esq. William Johnson, Esq. Deborah Klein, Esq.

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Ms. Marlene Dortch April 4, 2005 Page 2

> Mr. Charles N. Miller Mary Beth Murphy, Esq

During the meeting, RIAA demonstrated the ease with which existing technology, such as Time Trax and Replay Music, could be used to record, disaggregate, and catalogue digital music transmissions. It also showed the staff models of The Bug, a digital receiver/recorder marketed in the United Kingdom, and the Shark, an analog device sold in the United States. RIAA noted that these devices and technology demonstrated that RIAA's concerns that Commission action authorizing digital audio broadcasting without content protection would enable listeners to cherry pick DAB transmissions and create libraries of recorded music without ever having to listen to the music was real and imminent. Attached to this ex parte are samples of the promotional material used by Time Trax, Replay Music and the manufacturers of the devices demonstrated during the meeting. These materials include directions for automatically recording digitally transmitted music, including cherry-picking particular songs and artists while blocking others.

In addition, record company representatives advised the staff that productive negotiations were ongoing between representatives of the recording industry, certain broadcast groups, and certain consumer electronics manufacturers looking toward the development of methods by which digital broadcasters might offer supplemental services that would also permit the protection of copyrighted broadcast content. RIAA and the record company representatives indicated they are hopeful that these discussions would lead to a consensus among the various industries that could provide a path to resolve some or all of the issues raised in the pending Notice of Inquiry. They also discussed the Commission's schedule for deciding Notice of Proposed Rulemaking and Notice of Inquiry.

Finally, RIAA noted the recent oral argument in the American Library Association case, and reminded the staff that, in its comments, it had suggested both encryption and a flag as alternative means of providing reasonable protection of copyrighted works. In response to a staff inquiry, RIAA discussed the encryption proposal set forth in its Comments.

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Ms. Marlene Dortch April 4, 2005 Page 3

If there are any questions concerning this matter, please let me know.

Sincerely yours,

Theodore D. Frank

Counsel for the Recording Industry

Association of America, Inc.

cc: Members of the Media Bureau Attending

ATTACHMENT

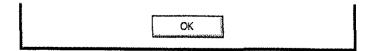
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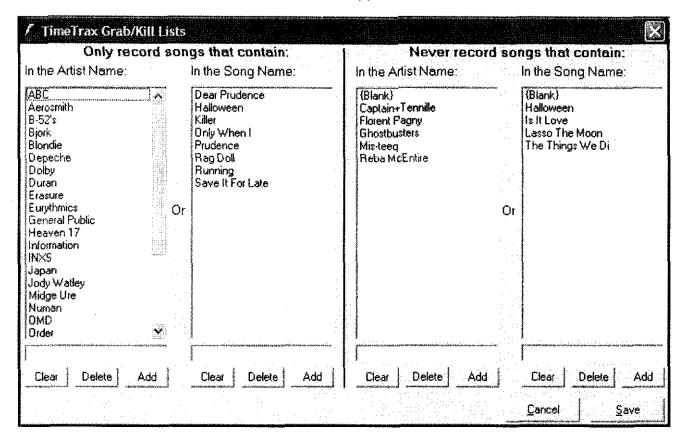




You must correct the conflict before the schedule will save correctly.

Grab/Kill Lists

The Grab/Kill Lists ensure that only those artists or songs you specify are recorded, or that songs you don't want are never recorded. To set up the Grab/Kill Lists, click the "Grab/Kill Lists" checkbox on the main screen. The List Editor will appear:



There are two parts to the lists: Grab (the left side) and Kill (the right side).

When **Grab** is enabled, and a song is finished recording, TimeTrax examines the artist name and song name. If any part of an entry from either the Artist List or Song List appears in the artist name or song name, the song is then saved to disk. If not, the song is discarded.

When **Kill** is enabled, and a song is finished recording, TimeTrax examines the artist name and song name. If any part of an entry from either the Artist List or Song List appears in the artist name or song name, the song is discarded - even if the song appears in the Grab List. The Kill list takes precedence over the Grab list.

To add an artist or song name, type the artist or song in the appropriate box below the list, and click "Add". To delete an existing artist or song name, select it in the list and click "Delete". To edit an existing artist or song name, select it in the list, edit it in the box below the list, and click "Add" to put it back in the box. Changes made in the list do not take effect until the SAVE button is pressed.



replay misit

The Ultimate Streaming Music Recorder

Order

Download

Products

Support

Affiliate:

Company



Replay Music Quick Tour

You're about to see how easy it is to record perfect MP3 files with Replay Music.

Recording is as easy as 1, 2, 3:

- Open Replay Music and click Start Recording.
- 2. Play the music you want to record.
- 3. Click Stop Recording when finished.

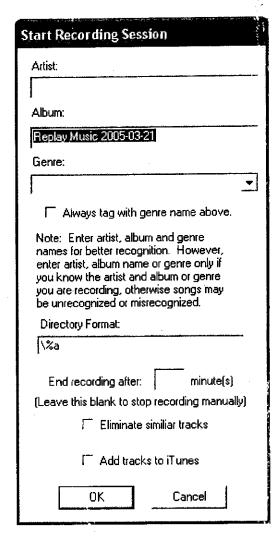
When you're ready to do a live recording session, refer to the User Guide for more detailed step-by-step instructions, including important setup information.

Want to see more ? Let's start the tour! When you open Replay Music, it appears like this:



Here's how easy it is to record:

1. Click Start Recording. The Start Recording Session dialog appears:



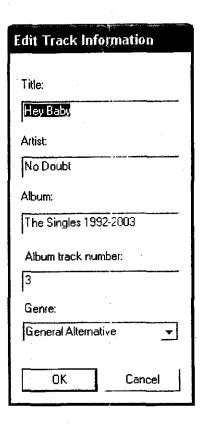
- 2. Enter a name for the Album. This is used if Replay Music can't determine the album name.
- 3. Enter a **Default Genre**. If Replay Music cannot determine a genre, then this one is used.
- 4. Add Tracks to iTunes: If you want your recorded tracks to be added to iTunes automatically (for syncing to your iPod), check this option. Tracks are added after the recording session ends.
- 5. Click **OK**. The recording session starts.
- 6. Play the audio you want to record.

As you record, the main screen fills up with the names of the songs that have been recorded, as you see here:



Editing MP3 Tags

You can change the artist, album and song title tags in the saved MP3 files. Just select one or more tracks, and click **Edit Track** (s). The Edit Track dialog appears:



Just enter the new data for the track, then click **OK**. The information you entered is saved inside the MP3 file.

When you're done recording, just click Stop Recording.

Sorting and Deleting Tracks

During or after recording, you can sort the list of tracks by Artist, Title, Album or Genre -- just click the desired column heading. This makes it easy to see what songs have been recorded. If you don't want some of the songs you've recorded, you can delete multiple tracks at once by highlighting them and clicking **Delete Tracks**.

Try Replay Music Yourself!

That's how easy it is to record with Replay Music. Go ahead -- download a demo and order today!





Learn more from the User Guide Return to the Replay Music Home page

Note: Replay Music is not intended for use in circumventing copy protection mechanisms or for making illegal copies of copyrighted content. Please respect the rights of the content owners when recording.

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Replay Music 2.2 User Guide

Get Started!
Configuring Popular Player Programs
Setting up Your Firewall
Starting a Recording Session
Stopping a Recording Session
Editing Track Information
Splitting Tracks Manually
Sorting the Track List
Deleting Tracks
Configuring Replay Music (Settings)
Creating CDs
Configuring the CO Burner
Recording LPs or cassette tapes

Get Started!

Replay Music is a revolutionary new way to capture streaming music from the Internet or any external source into MP3 files or CDs. And it's really easy to use, too.

For best results, we suggest you use one of the following high-quality streaming music services:

- Rhapsody™
- MusicMatch On Demand™
- Napster™
- Yahoo Launch™

- AccuRadio™
- iTunes[™]

Configuring Popular Player Programs

Some player programs may need to be configured to work optimally with Replay Music. Here's how to configure the popular ones:

Rhapsody

- 1. Click Options, User Settings from the menu.
- 2. Click Sound Output.
- 3. Select Wave Out.

MusicMatch

MusicMatch needs to be reconfigured to use the D€ fault Sound Card Driver when recording as follows:

- 1. Open MusicMatch
- 2. Click Options, Settings.
- 3. Click the Player tab.
- 4. Under Output Control, make sure Default is selected.
- 5. Click OK.

In more recent versions of MusicMatch, there may be no Sound Driver options available. If this hap, was, then you may need to use this process:

- 1. Close MusicMatch.
- 2. Open Replay Music.
- 3. Start a recording session.
- 4. Open MusicMatch.
- 5. Play the songs to record.

Yahoo Launch Cast Napster AccuRadio Other Windows Media based services If you have trouble recording, you may need to adjust the audio output in Windows Media Player as follows:

- 1. Open Windows Media Player.
- 2. Select **Tools**, **Options** from the menu. (If you don't see a menu, right click on the top of the window.)
- 3 Click the **Devices** tab.
- 4. Click Speakers, then click the Properties button.
- 5. Make sure the Sound Playback option is set to Default DirectSound Device.
- 6.

iTunes

QuickTime and iTunes often default to using Direct Sound, which leads to sound distortion during both recording and playback when Replay Music is active. To correct this problem, you need to tell QuickTime to use the default playback device instead.

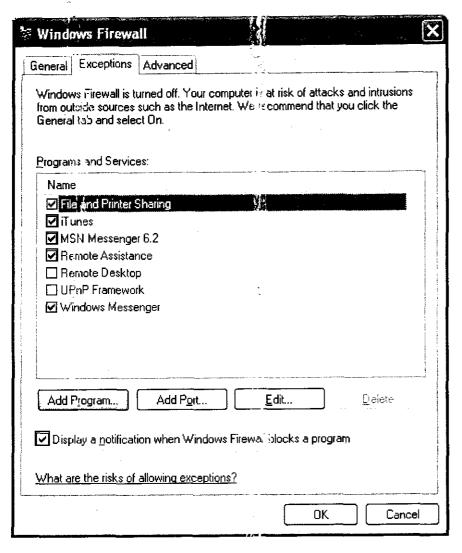
- 1. Make sure QuickTime and iTunes are closed.
- 2. Open QuickTime via Start, Programs, QuickTime, QuickTime Player.
- 3. Select Edit, Preferences, QuickTime Preferences.
- 4. In the dialog that appears, select **Sound Out** from the list at the top.
- 5. Pick waveOut: Windows Preferred Devices
- 6. Close the settings window and you're done.

Setting up Your Firewall

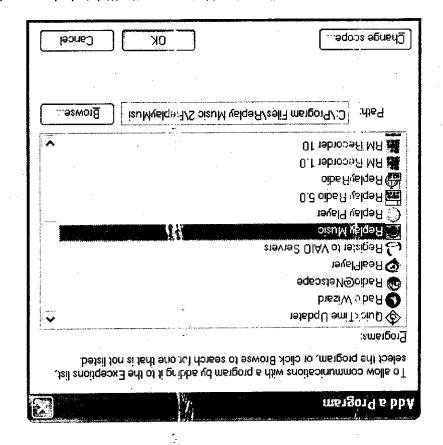
When you use Replay Music, it needs access to the Web to look up the song information. Often times, your firewall may not allow Replay Music access. Here's how to configure two of the most popular firewall solutions, Windows Firewall and Zone Alarm.

Windows Firewa'l:

- 1. Open Windows Firewall. Click Start, Settings, Control Panel, then Network Connections. Next, choose Change Windows Firewall Settings. Windows Firewall appears.
- 2. Click the **Exceptions** tab. The screen below appears:



3. Click Add Program, and then select Replay Music from the list. Your will see this screen:

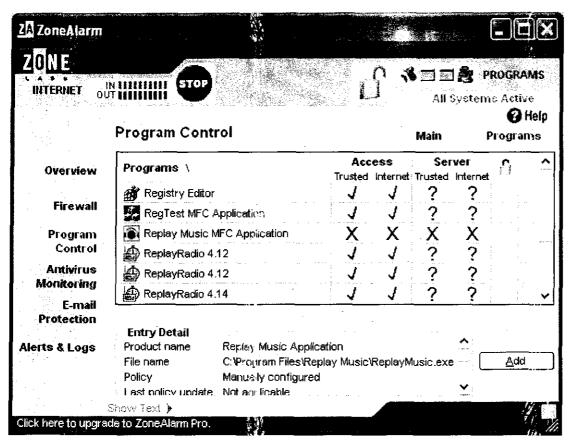


4. Click OK. Replay Music will now be able to access the Web to lookup song information.

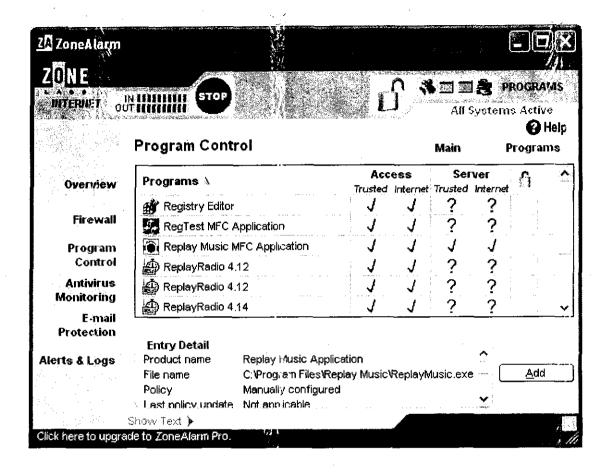
For Zone Alarm:

1. Open Zone Alarm, and click the program Control Tab.
2. Locate Replay Music. If Replay Music is bloc. ed, you'll see red Xs next to it as shown here:

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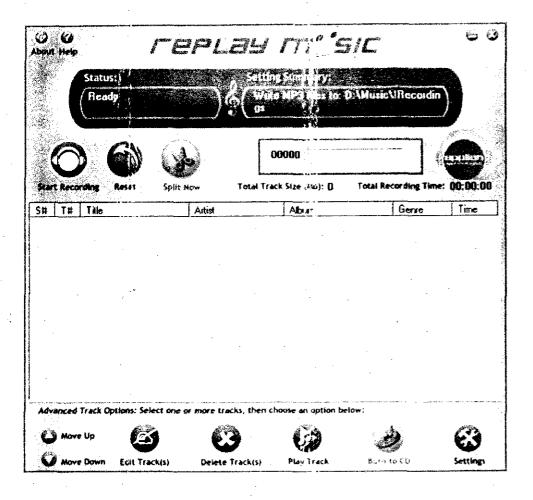
3. Click each X, and select Allow. When you're sone, your screen should look like this:



Starting a Recording Session

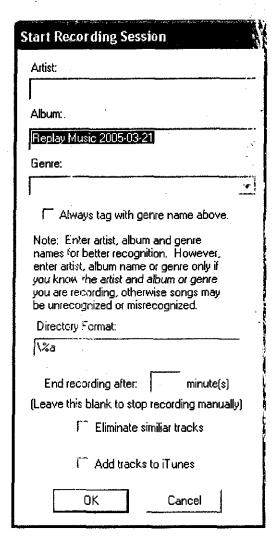
IMPORTANT: When recording, be sure to open Replay Music first, THEN open the music player program or browser you're using.

Here's how Replay Music appears when you open it:



To start a recording session:

- 1. Open Replay Music by clicking the Replay Music icon on your desktop.
- 2. Open your browser or music player program.
- 3. In Replay Music , click the Start Recording button. The Start Recording Session dialog appears:



- 4. Optionally, enter a name for the Album. This is used if Replay Music can't determine the album name.
- 5. Enter a **Default Genre**. If Replay Music cannot determine a genre, then this one is used.
- 6. Check Always tag with Genre name if you want to override Replay Music's genre lookup.
- 7. You can customize how files are saved into subfolders using the **Directory Format**.
 - o \%a will save each file into a folder with the name of the Album.
 - O \%A will save each file into a folder with the name of the Artist.
 - 0 \%G will save each file into a folder with the name of the Genre.

You can also combine tags -- for example, %A\%a will create an artist directory with the artist's albums as a

subdirectory.

- 8. If you want to automatically stop recording after a certain time, enter a value next to **End recording after.** Otherwise, just leave it blank.
- 9. If **Eliminate similar tracks** is checked, any duplicate songs with the same name during the current recording session are not saved. If you're recording online radio, leave this checked, as online radio stations may repeat songs.
- Add Tracks to iTunes: If you want your recorded tracks to be added to iTunes automatically (for syncing to your iPod), check this option. Tracks are added after the recording session ends.
- 11. Click OK. The recording session starts.

To ensure Replay Music is recording, look for the Vo Meter moving rapidly on the main screen. This lets you know that Replay Music can "hear" the audio to record.

After each song ends, Replay Music determines the artist and track name, and displays those names in the recorded songs list.

Hint: Entering a default artist, album or genre helps increase the recognition rate, if you know you're going to be recording a particular album, artist or genre.

Stopping a Recording Session

After you're done recording, click the **Stop Recording** button. This ends the recording session.

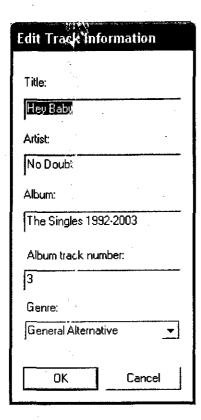
If you've specified that a CD is to be created, or if you want to add songs into iTunes, then those operations will occur at this time.

Editing Track Information

During or after recording, you can edit information that is saved along with each recorded song. This allows you greater control over how songs are labeled, or allows you to properly tag a song that is unrecognized by Replay Music. You can edit tracks one at a time, or several at once.

To edit track information for a single song:

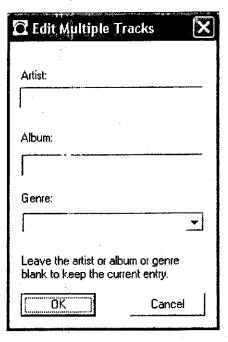
- 1. Click the song to edit.
- 2. Click Edit Track(s). The Edit Track dialog appears:



- 3. Change the title, artist or album, track number or genre fields as you see fit, then click OK.
- 4. The song data is now changed in the MP3 file.

To edit multiple tracks:

- 1. Highlight the tracks to edit.
- 2. Click Edit Track(s). The Edit Multiple Tracks dialog appears:



- 3. Change the Artist, Album or Genre tag. If you don't want to change a tag, leave it blank.
- 4. Click **OK** when finished.

Splitting Tracks Manually

Sometimes when recording from radio or live footage, there are no cues for the end of a track, and you may want to split tracks manually. You can do this by clicking the Split button while recording. The split button looks like this:



Sorting the Track List

During or after a recording session, you can sort the track list by artist, album or genre as follows:

• Click **S#** to sort songs in the order which they were recorded.

- Click **T#** to sort by album track number.
- Click **Title** to sort by song title.
- Click Artist to sort by artist.
- Click Album to sort by album name.
- Click Genre to sort by genre.

Deleting Tracks

During or after recording, you can delete tracks you do not wish to save.

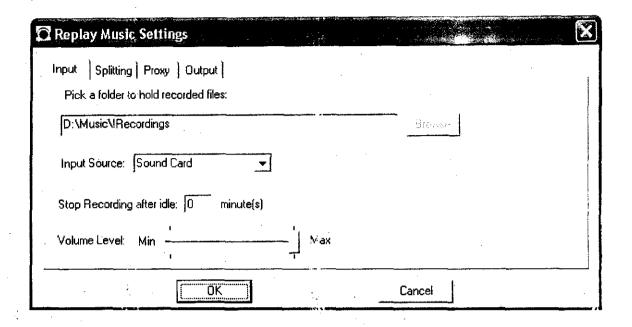
To delete tracks:

- 1. Select the track or tracks to delete.
- 2. Click Delete Track(s).

Configuring Replay Music (Settings)

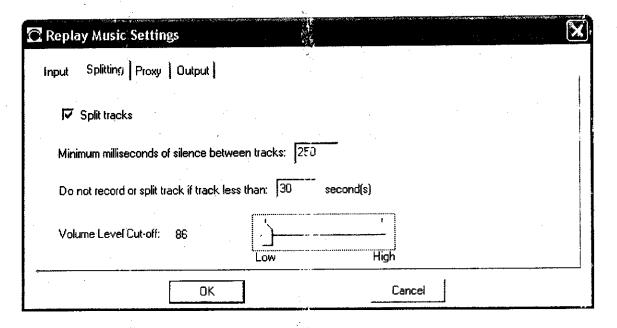
Replay Music lets you configure some parameter for optimizing the recording experience. Start by clicking the **Settings** button, and the Settings dialog appears.

Input



- Pick a folder to hold recorded files: This is the folder where your MP3 recordings are saved. Actually, they are saved in a subfolder under this folder, with the same name as the album name. So, if this setting is "D:\Music", and the album you're recording is named "Eagles", then songs are saved in "D:\Test\Eagles".
- Input Source: For most streaming recordings, use Sound Card as the input source. If you're recording via the Line-In port on your PC (i.e. recording old Vinyl albums), or if Sound Card isn't working, then you can change the recording source.
- **Stop Recording After Idle:** If you're doing an unattended recording session, you can have Replay Music automatically stop recording once a certain amount of idle time is detected. Set this to zero to disable this feature.
- Volume Level: You can adjust the recording volume level with this slider.

Splitting Tracks



In general, the default settings for these paramete's will work with most of the popular Internet Music sources. Only change these if your songs are not being split properly.

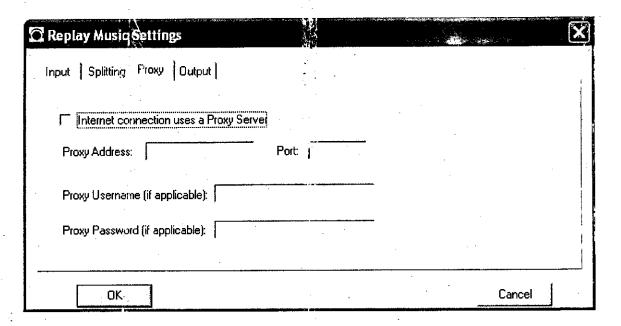
- Split Tracks: Enables automatic track splitting. If you uncheck this, then no track splits take place while recording.
- **Minimum milliseconds of silence between tracks:** When Replay Music records, it splits songs into individual tracks, primarily based upon detecting silence between each track. If tracks are not being split properly, adjust this setting. (Note: 1000 milliseconds = 1 second.)
- **Do not record or split track if less than** ___ **second(s):** Occasionally when recording, you may get partial tracks or unwanted interludes. This setting lets you choose to eliminate tracks under a certain length you decide.
- Volume Level Cut-off: When Replay Music determines silence, it uses a minimum volume threshold for deciding what "silence" is. For example, if you're recording from a vinyl LP, there may be some detectable background noise. You can increase this value if recordings are not being split properly, if you think that some background noise is occurring.

Here are our suggested defaults:

Minimum Milliseconds: 500 Do Not Record: 15 seconds

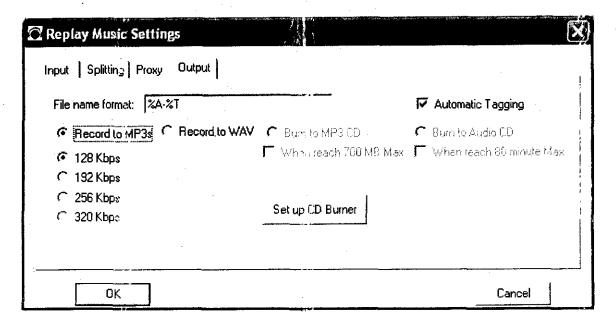
Volume Level Cutoff: 500 - 900 range.

Proxy



Replay Music needs to access the Web to determine the artist and track title for each song. If you connect to the Web using a proxy server (most connections DON'T), then set the Proxy Address and Port here.

Output Options



Replay Music can create MP3 files, or automatically burn CDs for you.

- File name format: This setting allows you to customize how your files are named. The symbols used for formatting are:
 - O %T = Track name
 - o %A = Artist name
 - 0 %a = Album
 - 0 %G = Genre
 - 0 %t = Track number

The default is %T-%A which means the track name will come first, then "-", then the artist name.

- Automatic Tagging: You can turn off tag lookups when this setting is unchecked.
- Record to MP3s: Makes individual MP3 files from each song. If this is selected, you can choose the bit rate for the MP3 file. Note that saving to a bit rate higher than the original recording has no effect on the quality. Normally, 128 Kbps or 196 Kbps is sufficient for excellent quality.
- Burn to MP3 CD: After the recording session ends, all your recorded tracks are burned to an MP3 DATA CD. (You will need a CD Player that can read MP3 CDs to play this.)
- **Burn to Audio CD:** After the recording session ends, all your recorded tracks are burned to an Audio CD. These CDs hold a maximum of 74 minutes of audio, and will work on virtually all CD players. (Note: when burning audio CDs for use on older CDs players, be sure to use CD-R discs, not CD-RW. CD-RW discs may not work in older CD payers.)
- When reach 700 Mb Max: This ends the recording session, and burns the MP3 DATA CD once the total size of

recordings becomes 700 Mb, the maximum capacity of an MP3 DATA CD.

- When reach 80 minutes max: When burning audio CDs, the CD creation process will start once 80 minutes of songs have been recorded.
- **Kbps:** Select the bit rate of the final file. Generally 128 Kbps gives great quality, but you can go up to 320 Kbps. Note that recording a 128 Kbps stream and outputting it to 320 Kbps won't give you any better sound quality.

Creating CDs

Replay Music can burn CDs automatically from your recordings. Both Audio CDs and MP3 DATA CDs can be created. Plus, you can make CDs on the-fly, or pick tracks to place on a CD after a recording session has ended.

Important: Be sure to configure your CD Burner with Replay Music before burning CDs.

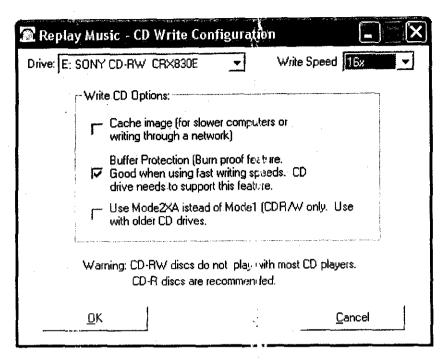
To make a CD:

- 1. Click Settings, and choose one of the CD cutput options: Burn to MP3 CD or Burn to Audio CD.
- 2. Click Start Recording to start your recording session.
- 3. Click Stop Recording when finished recording.
- 4. Follow the instructions which appear for burning all recorded tracks automatically or just selected tracks.
- 5. The CD will be created.

Configuring the CD Burner

If you plan to have Replay Music make audio CDs, you should be sure to set up the CD Burner properly in Replay Music.

- 1. From the main Replay Music display, select **Settings**. The Settings dialog appears.
- 2. Select **Setup CD Burner**. The CD Burner Setup dialog appears:



- 3. The CD drive should appear. Set the proper write speed for the media you want to use. (Look on the box to be sure you have the proper setting.)
- 4. Click OK.

IMPORTANT NOTES

- 1. CD-R discs will generally give better results than CD-RW discs, especially with older CD players.
- 2. Ensure the write speed is within range for the disc you are using.

Recording LPs or Cassette Tapes

You can also use Replay Music to record LPs or cassette tapes as MP3 files or CDs. Here's how:

- 1. Hook an AMPLIFIER output attached to your audio tape recorder to the line-in or mic port on your PC. (Hooking up the turntable or tape recorder directly to the PC won't produce any sound.)
- 2. In Replay Music's **Settings**, change the **Input Source** to Line-In or Microphone (depending upon which port you connected to in step 1). Click **OK** when finished.
- 3. Click Record, and play your tape or LP.

Legal Notices

CD and music-related data from Gracenote, Inc., copyright © 2000-2004 Gracenote. Gracenote CDDB® Client Software, copyright 2000-2004 Gracenote. This product and service may practice one or more of the following U.S. Patents: #5,987,525; #6,061,680; #6,154,773, #6,161,132, #6,230,192, #6,230,207, #6,240,459, #6,330,593, and other patents issued or pending. Services supplied and/or device manufactured under license for following Open Globe, Inc. United States Patent 6,304,523.

Note: Replay Music is not intended for use in circumventing copy protection mechanisms or for making illegal copies of copyrighted content. Please respect the rights of the content owners when recording.

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TW - This Week's Chart Position LW - Last Week's Chart Position Wks - Number Of Weeks In The Chart

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97-99FM

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CHART CHART NEWS TOP 40 THE PLAYLIST **NEW RELEASES**

DANCE ROCK/INDIE RnB/HIP HOP. MUSIC NEWS MOVIES ONECLICK FAQ

1XTRA ONE MUSIC ONE LIFE



The Official UK Singles Chart: 06.03.2005

ARTIST TITLE (LABEL) Wks

NEW

NEW: a (-)

NEW (-)

(3)

(2)

1-10 | 11-20 | 21-30 | 31-40

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www.jossstone.co.uk/ www.theofficialcharts.com

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on the bbc:

We Love Weekends

Radio 1's Chart Show

Official Top 40 Singles Chart

Stereophonics

Dakota (V2)

http://www.stereophonics.com

Nelly Ft Tim Mcgraw

Over And Over (Curb/Universal) http://www.nelly.net

Elvis Presley

Rock-A-Hula Baby (RCA) http://www.elvis.com

Cabin Crew

Star To Fall (Data)

Jennifer Lopez

CPLW STAR TO FALL

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Get Right (Epic) http://www.jenniferlopez.com

Britney Spears

Do Somethin' http://www.britneyspears.com

(-)

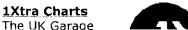
An Honest Mistake

1Xtra Charts

clips, and guizes

Check out all the weekend mayhem

Top of the Pops Interviews, video



NEW (-)

NEW



Bravery

http://www.thebravery.com

Akon

Locked Up

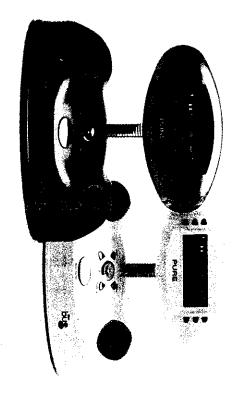






Bug Keeping

-ft gractical guide-for new owners



by PURE Digital





SD card manager DAB options Audio settings

Station order Manual Tune

Recording radio to a memory card

That's a keeper. Capture that special track and take it with you on a little bit of plastic.

You can record radio* to an SD (Secure Digital) card which you put into the SD card slot in the rear of your Bug. The amount you can record depends on the size of your card and the quality of the audio being broadcast. See Using an SD card, on page 24, for more details of card types and how to play back recordings.

- Push your card in the slot on the rear with gold pins facing down and forwards.
- 2. Press the Record button to start recording. You see a flashing record icon on the screen.
- 3. Press the Record button again to stop recording. You see a message giving the name that the recording has been saved under.

Changing DAB options

I want it all, I want it now and I want it different tomorrow.

Customise the way your Bug works in DAB mode using these options. Push the Menu button, select DAB options and choose from the following:

Station order

Change the order of stations on your station list using this option. The current order is highlighted on screen. Choose from the following:

Alphanumeric Displays all stations in alphanumeric order.

Favourite station Displays your ten most listened to stations at the top of the

station list and the others below. Your favourite stations are picked by your Bug which keeps track of how long you listen to

each station.

Station order Manual tune Auto-select station

Select frequency 118-218, 640MHz

Channel/trequency selection

Signal strength (118);

118 218, 640MHz

Below marker - no reception

Signal strength (11B):

Above marker - negerition available

^{*}Record function provided for personal use only

Active station

available, marked with a '?'. stations are those on your station list but not currently inactive ones at the bottom, in alphanumeric order. Inactive Displays active stations at the top of the station list and

Multiplex

Multiplexes are groups of stations owned and broadcast by a Lists stations in groups according to their mutuplex. multiplex operator.

Remove inactive stations Removes inactive stations from the station list

Add favs to presets selected. Iransfers your ten favourite stations to presets. Available only when Favourite station order (above) has been

Manual tune

Find new stations or fine tune your reception using this option. You see a list of channels and frequencies. Each multiplex has a different channel and

frequency le.g. BBC is channel 12B and Digital One is 11D), contact the radio stations

 Select the channel you want from the list. for information on which multiplex they are broadcast on.

level for reception and the filled blocks indicate the current level Note You see a signal strength display. The marker indicates the minimum required

2. Move your Bug or aerial and to try to raise the current level to the marker or beyond button to see a list of the new stations added. the stations in that multiplex will be added to the station list. Press the navigation You will see the multiplex name next to the channel if a good signal is received and

pushing the navigation button. **Note** You can show the signal strength for a station you are listening to at any time by



Select frequency 11B 218, 640MHz

Dignal strength (118); Channel/frequency selection

↑11B 218, 640MHz

Below marker - no reception

Signal strength (118):

lbove marker - reception available

Sleep time Timed recording

Setting a timed recording

Your Mother's in town but obviously you don't want to miss 'Thrash metal hour'. Set a timer and record* to SD card or your MiniDisc recorder and she need never know that you really don't like the TV themes in Brass CD she got you last Christmas.

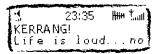
You'can set up to nine different timers. To set up a timed recording:

- 1. Press the Menu button, select the Alarm/timer option and choose Timed recording.
- 2. Select one of the nine timers and choose Set to see and change the timer settings or Off to switch that timer off.
- 3. Set the start time, duration, day and station you want the timer for using the navigation button to select (push) and change settings (up/down).
- 4. Choose to record to the SD card or output to an external recorder via the optical output.
- 5. Select whether you want the speakers to be on or off while recording.

Note The above instructions will not set the record time on an external recorder. Your recorder may be able to detect when an S/PDIF signal is present (synchro-record) or you will have to set your external recorder to start recording at the same time. You should also press Menu, select Audio settings, Optical digital out and set this to Off/Timer.if using a synchro-record method so that your recorder can detect when the recording is to start.

When you return to default mode you see a clock icon on the screen showing that one or more timers are set. The timer list will also now show a clock next to those that are switched on.

Snooze period Sleep time Timed recording



Timer set icon

*Record function provided for personal use only



Transferring files to your PC

Want to expand your Bug's music tastes or backup those golden soundbites? You can transfer files to and from the SD card using your PC. There are two main methods possible:

Connecting the USB port on your Bug to a USB port on your PC

On later versions of Windows when you connect your Bug to your PC using a suitable cable your PC should detect the Bug and install it as an external storage device giving it a drive letter (e.g. E.) and making it available through Your Computer or Windows Explorer.

With your Bug and PC switched on and a card inserted you should be able to see the TRACKS directory on the SD card and copy files to and from the card as you would from any other drive.

Note If you add other files to the card from your PC, make sure these are placed in the TRACKS directory or your Bug will not find and display them on the track list. The files must also have names with 8 characters or less with no spaces (e.g. thebug.mp3).

Using an SD card reader

As an alternative to the above method, if you already have an SD card reader built-in or attached to your PC you can use it in the normal way to transfer files to and from an SD card.

Changing audio settin

Whether you like banging bass, ear-s to sound just how you like it.

Push the Menu button, select Audio s



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Equalisation Optical digital out Line out recording

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radioSHARK manual

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SETUP AND INSTALLATION

Thanks for purchasing radioSHARK. radioSHARK is a very powerful software/hardware combination, and we encourage you to read through the manual completely.

To begin, run the **radioSHARK application** installer on the included CD. Then plug in your radioSHARK to any available USB port on your computer and launch the radioSHARK application.

Your computer should recognize the radioSHARK hardware and the radioSHARK application should now be playing static.

Tune to your favorite radio station and off you go. If you don't hear anything, check that your radioSHARK is plugged in properly, quit and relaunch the radioSHARK application. If that doesn't work, you may want to read through our **TROUBLESHOOTING** guide [pg. 28]

BASIC RADIO PLAY

The main radioSHARK window contains the following:

TUNING

To tune radioSHARK,

drag the Tuning Slider to the station you want to hear.



VOLUME

Volume is controlled by the slider at the bottom of the window. To mute the volume, click the speaker icon to the left of the Volume slider.

BAND

This button switches between AM and FM. Your choice will be confirmed in the right hand portion of the window.

SEEK

Selecting this button will make radioSHARK jump to the next strongest station.

REC

The **Record** button. Pressing this will start and stop recording. Please refer to **BASIC RECORDING** [pg 8].

PRESETS

When you find a station you like, go to the **Presets** pull down menu and **select** Add **Preset**. You'll be prompted to give it a name.

SCHED

This opens the **Scheduling** window. Here you can schedule new recordings and access previous recordings. In the Mac version you can also do a recording search here.

EQ

radioSHARK has an excellent equalization section, which can be accessed by the **EQ** button (an **EQ** confirmation will appear in the main **radioSHARK** window). There you can choose among preset **EQ** settings by checking the **On** box and selecting from the pull down **Presets** menu. If you wish to create your own, simply adjust the sliders, then save and name those settings by selecting **Add Preset** from the pull down **menu**.

TS

Time Shift. This will open the Time Shift drawer, and we'll explain its functions more fully in **TIME SHIFT RECORDING** [pg 14].

BASIC RECORDING

radioSHARK is capable of several types of recording – Instant (or Basic), Scheduled, and Time Shift recording.

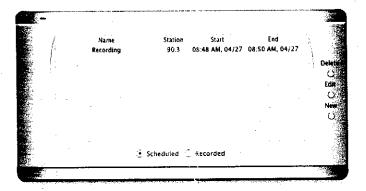
INSTANT RECORDING

Instant Recording allows you to immediately record a live radio broadcast. To start an Instant Recording, click the **Rec** button. You'll get four confirmations of recording status:

- The radioSHARK LED will turn from blue to red
- The Rec button will turn red
- REC (in red) will appear in the window
- Status: Recording in progress will appear in the window.
- · Hit Rec again to stop recording.

SCHEDULED RECORDING

One of radioSHARK's best features is its ability to schedule recordings. You can schedule AM and FM recordings, set how many additional times you want a program recorded, and what type of file you want the recording saved as.



In the Scheduling window, select **New**, (Mac) or **Add** (Windows) and you'll get the **Event Details** window (Mac) or **Event Information** (Windows). This is where you select the radio sta-

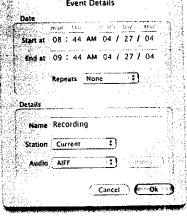
tion and recording times, number of recording repetitions, name, and file format. Once you've scheduled a recording, you can delete it by clicking on the file and selecting **Delete** (Mac) or **Remove** (Windows). Selecting the **Edit** button will return you to the **Event Details** window.

SCHEDULING RECORDINGS

- 1 Select Sched (Schedule) in the main window and Scheduled in the window that appears.
- 2 Click on New (Mac) or Add (Windows)
- 3 Follow the **EVENT** instructions for Mac [pg. 11] or PC [pg. 12]
- Recording will be confirmed by:
 - The radioSHARK LED will turn from blue to red
 - The Rec button will turn red
 - REC (in red) will appear in the window
 - Status: Event (recording name) in progress will appear at the bottom of the main window

EVENT DETAILS WINDOW - MAC

- In the Date box, select the Start and End time – Hour, Minute, Month, Day, Year.
- Set how often you want the recording repeated – None, Hourly, Daily, or Weekly.
- In the **Details** box, give the recording a name

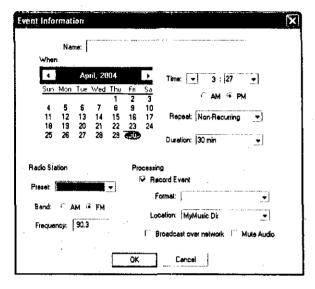


- 4 Select the **Station**. radioSHARK will automatically switch between AM and FM stations, once you've scheduled them.
- Select the type of audio file format. For more information, see **REFERENCE: AUDIO FORMATS** [pg. 29].
- 6 Confirm the scheduled event by pressing Ok.

Repeat steps 1-6 for each Event.

EVENT INFORMATION WINDOW - WINDOWS

- Give the recording a name in the Name field.
- Select the recording date on the calendar.



- Select the start Time hours, minutes, AM or PM. Though the minutes pull down column is in increments of 5 minutes, you can type in any number you wish.
- Select the number of times to Repeat Non-Recurring, Daily, Weekly, Monthly.
- 5 Select the **Duration** time again, you can input any number or use the default pull down menu.
- 6 Choose the Radio Station You can choose among your Presets, or type in the station's radio Frequency. Select AM or FM Band.
- Under Processing, confirm the Record Event checkbox is checked. Choose the type of audio format for the recording file under Format (currently, only WAV is available). Select New Format and in the Custom Format window that appears, select OK, and choose the file Location. To silence the audio playback as it's recording, check Mute Audio. For more information about formats, refer to REFERENCE: AUDIO FORMATS [pg. 29].

TIME SHIFT RECORDING

This requires some explanation, since we're violating the laws of physics and allowing you to go back in time.

THE BASIC CONCEPT

radioSHARK is a wonderful desktop radio. You turn it on, and hear your favorite song. But what if the song is almost over? Wouldn't it be great if you could **rewind** and go back to the song's beginning? What if it's the Big Game and you want to take a bathroom break and come back to the spot where you paused the action? You can with radioSHARK.

THE BUFFER

The key to the radioSHARK magic is the buffer. The buffer is the temporary storage location – actually a section of your hard drive – that radioSHARK sets aside for recording in the background. If you've enabled **Time Shift** (it's **off** by default), whatever station you select will be recorded transparently in the background. Whether you're listening or not, radioSHARK will be.

You can set the **Buffer length** (30 minutes is the default) in **Preferences**. This is the amount of time radioSHARK will record

in the background while the program is on. When you decide to record or listen to a program, the Buffer length will be the amount of time you can go back in that program. Next to Buffer Length is how much hard drive space that buffer length corresponds to (30 minutes = 302 MB, etc.). Changing the Buffer Length will result in a change in the hard drive space field.

radioSHARK employs a circular buffer. When you set **Buffer Length** to 30 minutes, for example, radioSHARK records for 30 minutes, loops back, and continues recording from the beginning of the Buffer. If you were to take a 35 minute break and return, the Buffer would have recorded over the first 5 minutes of the previous 30 minute section.

If you're going to do any Time Shift Recording – even something as small as a Pause for a bathroom break - you should always know the amount of time you've allotted to the Buffer and where you are in that Buffer Length (shown in the Time Shift drawer slider in the Mac version). Regardless of how long you set the Buffer Length, you can't Pause radioSHARK longer than the amount of time you have left in the Buffer.

To configure Time Shift Recording, set the following Preferences:

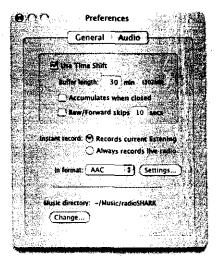
Go to radioSHARK
Preferences (Windows)
or radioSHARK
Preferences > Audio
(Mac).

Use Time Shift - This turns Time Shift Recording **ON**.

Accumulates when closed (Mac only) - When

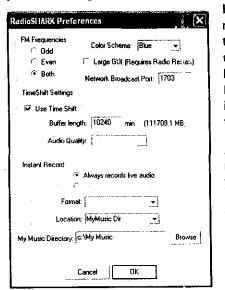
this is checked (and **Time Shift** is **ON**), the recording Buffer will continue to record after you've quit the radioSHARK program. When you open the program again, the Time Shift Buffer will contain recorded material you can access immediately.

Rew/Forward skips (Mac only) - Here you set the time increments for the **Rew/Forward buttons** in the **TS** window (default



is 10 seconds). Each press of **Rewind** or **Fast Forward** will move you **back/ahead** that amount of time.

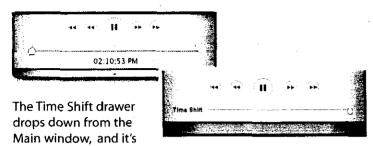
Instant record - Records current listening. This will record what you are hearing. If **Time Shift** is **ON**, and you want to hear the



beginning of a song you missed, you scroll back in the **Time Shift** drawer until that point and hit Record. If you've selected **Records current listening** you will record from that point.

Always records live radio – No matter where you select on the Time Shift Slider, radioSHARK will record live radio.

USING THE TIME SHIFT DRAWER



where you manipulate the **Time Shift Recording Buffer**. To make the drawer visible, select **TS** in the Main window. Make sure **Time Shift** is **ON** by checking **Use Time Shift** under **Preferences>Audio** (Mac) or **Preferences** (Windows). The slider at the bottom allows you to move through the time shift buffer (the amount of time you selected earlier in Preferences). So if you're listening to live radio and you miss the beginning of a song, you can adjust the slider back a few minutes and record.

(Mac version) There is a clock at the bottom of this window, showing you the beginning point of Time Shift Recording (beginning of the Buffer), and a Timeline that shows you points along the time of the recording (its place in the Buffer). For

example, if you selected 30 mins. as the Buffer length and started the radioSHARK software at 1:00 PM, the Timeline would show you something like 10 minute increments along the top of the line (1:10, 1:20, etc.) and the Buffer Length underneath the Timeline (00:30:00).

In the Mac version, you can hear audio as you move the slider forward and back. This is known as "audio scrubbing," and it's a very useful feature to help you find your place in a recording. Try it and you'll understand its functionality much better.

GRIFFIN radioSHAF

PLAYBACK OF RECORDINGS

When you've successfully scheduled and completed a recording, the next step is Playback or Editing of that recording. There's also an **Add** button which allows you to add recordings stored somewhere else on your computer (Mac only).

Your recording will be stored at **Sched>Recorded**. To name it, double click on the file under **Name** (Mac) or **Event** (Windows). To delete it select **Remove**. A prompt will appear to confirm.



Click **PLAY** to play a recording. You'll hear the recording and you'll see **PLAY** in the main window display.

Click the **STOP** button to stop playback. The display will switch back to the selected radio frequency.

If you selected **Add finished recordings to iTunes** in **Preferences>General** (Mac only), your recording will also appear in iTunes in the radioSHARK playlist.

FILE MANAGEMENT

MACINTOSH

In Preferences>General, you have the option Add finished recordings to iTunes. Checking that will automatically file your finished recordings in the radioSHARK folder in iTunes. If you didn't check that option, or if you want to access your recordings for other programs, you can find them in Users>Your User Name>Music>radioSHARK.

In the **Sched>Recorded** window, you can add other recordings to the window by selecting **Add** and choosing the **recording location**.

WINDOWS

In radioSHARK **Preferences** you can choose a directory location for your finished recordings in the **Location** field. You can also select the location for your Music Directory folder in the **My Music Directory** field.